

WMMS 2000

Wetland Mitigation Monitoring System 2000

Project Date: On-going

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The purpose of this system is to provide a userfriendly database application to store and assist in the analysis of wetland mitigation monitoring data for existing and future SHA wetland mitigation monitoring sites. Currently, SHA and SHA's Maryland State Highway Administration Wetland Mitigation Monitoring System 2000



Evid Data

Beports

Import/Export

Eye WMMS

Wetland Mitigation Database

monitoring consultants use various modifications of an MS Access database, the Wetland Mitigation Monitoring System (WMMS). In addition the database was changed significantly in 1993, therefore data collected prior and post 1993 is different. The WMMS was evaluated - both the pre 1993 and post 1993 systems, and compared with the Maryland Compensatory Mitigation Guidance (Guidance) of August 1994. From this evaluation and the information gathered at the workgroup meeting held at SHA on February 22, 2000, a new database design and sampling methodology is proposed. The new system is designed to comply with the Guidance and facilitate evaluation of permit performance standards to measure monitoring site success.

The new database application will include:

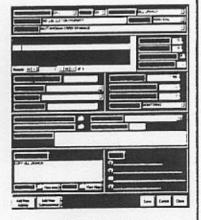
- · automation of data entry and calculations where feasible,
- potential for an abbreviated monitoring report through collection and reporting of desired information.
- creation of supplementary standard reports including status reports,
- · scheduling and notification of monitoring to all applicable agencies and consultants,
- integration of existing data for each year and for each consultant into one database,
- creation of database tables to store existing and newly collected data including information associated with the geographic point feature and a table to store pointers to all of the relevant scanned documents for the site (textual body of the mitigation monitoring report, permits, water quality test results and certificates, relevant correspondence, any as-built plans not in digital format and photographs),
- the ability to integrate and update new data collected by consultants and
- additional digital data that may be easily accessed including groundwater well data and rainfall
 data.

The benefits of the new database include:

- Existing site documents will be archived for easy search and retrieval with the ability to archive future documents. These documents are accessible to multiple staff simultaneously.
- Time saved by staff and consultants in entering, reporting and reviewing information.
- Time saved by staff and consultants searching for information allows for increased efficiency.
- Information in the WMMS can be accessed for several years allowing the ability to learn from year-to-year trends while facilitating search capabilities.
- Summary and tracking information can be used to facilitate efficient scheduling, generate annual reports and share these reports with reviewing agencies to prevent duplication of effort.
- Flexibility to create an abbreviated monitoring report resulting in the need for less storage space.



GIS Wetland Mapping



General Site Data Form